

WIRELESS ELECTROSTATIC CHARGING AND COMMUNICATING
SYSTEM

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ABSTRACT OF THE DISCLOSURE

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The wireless electrostatic charging and communicating system includes an electrostatic reader, an electrostatic charger and an electrostatic rechargeable device or electrostatic transceiver such as such as a smart card or radio frequency identification (RFID) card without requiring physical contact to electrodes. The electrostatic system is capacitance based and the charging and communicating occurs over capacitively coupled electrostatic electrodes or electrostatic electrodes. The electrostatic rechargeable device or transceiver includes a charge receiver and an energy storage means, for being charged or communicated with in the electrostatic system. The energy storage means may be any energy storage device including a rechargeable battery or capacitor. In a second embodiment, the electrostatic rechargeable device or transceiver includes an electrostatic charge receiver and an electromagnetic charge receiver with the energy storage means so that it may be alternatively charged or communicated with in an electrostatic system or an electromagnetic system for compatibility in either system.

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